

IN THE CLAIMS:

Please ADD new claim 12 and AMEND claim 7 in accordance with the following:

1. (PREVIOUSLY PRESENTED) A method for driving a plasma display panel which displays a frame composed of a plurality of sub-fields having a sustain period which has different weights of luminance, the method comprising:

applying plural kinds of sustain pulses having different voltage waveforms for at least one sustain period of a sub-field; and

adjusting a number of sustain pulses in each of the plural kinds of voltage waveforms according to a weight of luminance set for the at least one sustain period of the corresponding sub-field, wherein

the plural kinds of sustain pulses bring light emissions that differ from one another.

2. (PREVIOUSLY PRESENTED) The method of claim 1, wherein the number of sustain pulses in each of the plural kinds of voltage waveforms is changed in accordance with input luminance in order to perform gradation display.

3. (PREVIOUSLY PRESENTED) The method of claim 2, wherein the plural kinds of sustain pulses having different voltage waveforms are applied regularly and alternatively in a common sustain period.

4. (PREVIOUSLY PRESENTED) The method of claim 2, wherein the plural kinds of sustain pulses differ in ultimate electric potential, and a sustain pulse with a higher ultimate electric potential than another sustain pulse is applied in a latter phase of a sustain period.

5. (PREVIOUSLY PRESENTED) The method of claim 2, wherein the plural kinds of sustain pulses differ in ultimate electric potential, and a sustain pulse with a higher ultimate electric potential than another sustain pulse is applied in a middle phase of a sustain period, and the sustain pulse with a lower ultimate electric potential is applied in phases prior to and subsequent to the middle phase of the sustain period.

6. (PREVIOUSLY PRESENTED) The method of claim 1, wherein a constituent ratio of the plural kinds of sustain pulses having different voltage waveforms is changed in accordance with a display rate in a display screen.

7. (CURRENTLY AMENDED) A method for driving a plasma display panel which displays a frame having a plurality of sub-fields, the method comprising:

applying plural kinds of sustain pulses having different voltage waveforms for a sustain period of at least one sub-field; and

adjusting a number of sustain pulses in the different voltage waveforms according to a weight of luminance set for the at least one sustain period of the corresponding sub-field,
wherein

one of the voltage waveforms of the sustain pulses is a step-like waveform.

8. (PREVIOUSLY PRESENTED) The method of claim 7, wherein the step-like waveform comprises a rectangular pulse and an offset voltage added to the rectangular pulse.

9. (PREVIOUSLY PRESENTED) The method of claim 7, wherein another voltage waveform of the sustain pulses is a rectangular pulse having a lower ultimate voltage than the sustain pulse of the step-like waveform.

10. (PREVIOUSLY PRESENTED) The method of claim 7, wherein at least one sustain pulse having the step-like waveform is applied in an initial phase of the sustain period, and another sustain pulse having a rectangular voltage waveform is applied in a subsequent phase in a common sustain period.

11. (PREVIOUSLY PRESENTED) An apparatus comprising:
a sustain pulse application unit applying sustain pulses with different voltage waveforms for a sustain period of a sub-field of a frame; and

a sustain pulse adjustment unit adjusting a number of the sustain pulses in each of the voltage waveforms to achieve a weight of luminance for the sustain period of the sub-field,
wherein

sustain pulses having different voltage waveforms bring different respective light emissions.

12. (NEW) A method for driving a plasma display panel, comprising:

applying plural kinds of sustain pulses having different voltage waveforms for a sustain period of at least one sub-field, wherein

at least one sustain pulse having a step-like waveform is applied in an initial phase of the sustain period, and another sustain pulse having a rectangular voltage waveform is applied in a subsequent phase in a common sustain period.